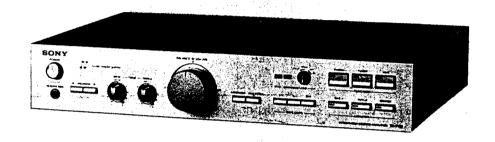
US Model Canadian Model AEP Model UK Model



INTEGRATED STEREO AMPLIFIER | TI



SPECIFICATIONS

GENERAL

Power Requirements:

120 V ac, 60 Hz (US, Canadian model)

220 V ac, 50/60 Hz (AEP model)

240 V ac, 50/60 Hz (UK model)

Power Consumption:

90 W (US model)

140 W (Canadian model) 220 W (AEP model)

260 W (UK model)

AC Outlets: 1 switched, 100 W (at max.)

(US, Canadian model)

2 unswitched, total 100 W (at max.)

Dimensions:

Approx. 430 (w) x 80 (h) x 335 (d) mm

17 (w) x 3 ¼ (h) x 13 ¼ (d) inches

including projecting parts and controls

Weight:

Approx. 4.4 kg, 9 lb 12 oz (net)

Approx. 5.5 kg, 12 lb 3 oz (in shipping carton)

- Continued on page 2 -

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK NO THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE / SUR LES DIAGRAMMES SCHÉ-MATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIECES SONY DONT LES NUMEROS SONT DONNÉS DANS CE MANUEL OUDANS LES SUPPLEMENTS PUBLIES PAR SONY.

WARNING!!

THIS SET USES THE SWITCHING-TYPE POWER-SUPPLY CIRCUIT, WHICH IS DIRECTLY CONNECTED TO THE AC POWER LINE, AN ISOLATION TRANSFORMER SHOULD BE USED BETWEEN THE AC OUTLET AND THE AC PLUG OF THE SET DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD WHEN REPAIR-ING THE POWER SUPPLY CIRCUIT.



AMPLIFIER SECTION

Power Output and Total Harmonic Distortion:

(US, Canadian model)

With 8 Ω loads, both channels driven, from 20 - 20,000 Hz; rated 50W per channel minimum RMS power, with no more than 0.008 % total harmonic distortion from 250 mW to rated output.

Continuous RMS Power

Output:

(Less than 0.008% THD, both channels driven simultaneously)

(AEP, UK model)

Power Bandwidth:

(IHF)

Harmonic Distortion:

Less than 0.008 % at rated output Less than 0.006 % at 25 W output

Intermodulation (IM)

Distortion:

(60Hz: 7kHz = 4:1)

Frequency Response:

TAPE 1, 2

TUNER

Residual Noise:

Dampting Factor:

50 (8 Ω, 1 kHz)

At 20 - 20,000 Hz

 $50 W + 50 W (8 \Omega)$ According to DIN 45500

50 W + 50 W (8 Ω)

5 - 30,000 Hz (AEP, UK model)

Less than 0.008 % at rated output

Less than 0.006 % at 25 W output

Less than 130 μ V (8 Ω , Network A)

PHONO RIAA equalization curve ± 0.2 dB

 $5 - 70,000 \; Hz \; ^{+0}_{-1} \; dB$

Inputs:

	Setting of the CARTRIDGE LOAD selector	Sensitivity	Impedance	Maximum input capability (1 kHz)	S/N (weighting network, - input level)
PHONO	180 pF 330 pF	2.5 mV	50 kΩ	150 mV	90 dB 78 dB * . (A, 2.5 mV)
	40 Ω 3 Ω	0.17 mV	100 Ω 33 Ω	11 mV	75 dB 74 dB* (A, 0.25 mV)
TUNER AUX TAPE 1, 2		150 mV	50 kΩ		104 dB 78 dB* (A, 150 mV)

* '78 IHF

Measured with rated output power into 8-ohm loads (both channels driven simultaneously) at 1 kHz

Outputs:

	Voltage	Impedance		
REC OUT 1, 2	150 mV (-14.5 dB)	4.7 kΩ		
SPEAKER A, B	Accepts speakers of $8-16~\Omega$			
HEAD- PHONES	Accepts low and high impeda	nce headphones.		

Tone Controls:

BASS = 10 dB at 100 Hz

(turnover frequency: 500 Hz) TREBLE ± 10 dB at 25 kHz (turnover frequency: 5 kHz)

Loudness:

+10 dB at 100 Hz, +3 dB at 10 kHz

(att. 30dB)

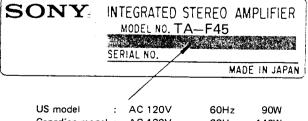
Low Filter:

6 dB/octave attenuation below 15 Hz

0 dB = 0.775 V

MODEL IDENTIFICATION

Specification Label



Canadian model **AC 120V** 60Hz 140W AEP model AC 220V ~50/60Hz 220W UK modei AC 240V ~50/60Hz 260W

1. REPLACEMENT OF THE TRANSFORMERS IN THE INVERTER CIRCUIT

The lead wire arrangement for each of T901 and T902 in the inverter circuit are shown in Fig. 1.

As the repair parts, T901 and T902 are formed by only iron core. Thus, if the coils are defective, arrange a new transformers as shown below. Note that the lead lengths must be exact. Also wind the coil carefully.

2. INVERTER CIRCUIT TRANSISTOR REPLACE-MENT

When any of the inverter transistors (Q903, Q904) is broken, replace their transistors together.

A pair of transistors with the same rank is provided for service field.

Ref. No.	Part No.	Description
Q903, 904	X-4863-506-1	Transistor Ass'y, service

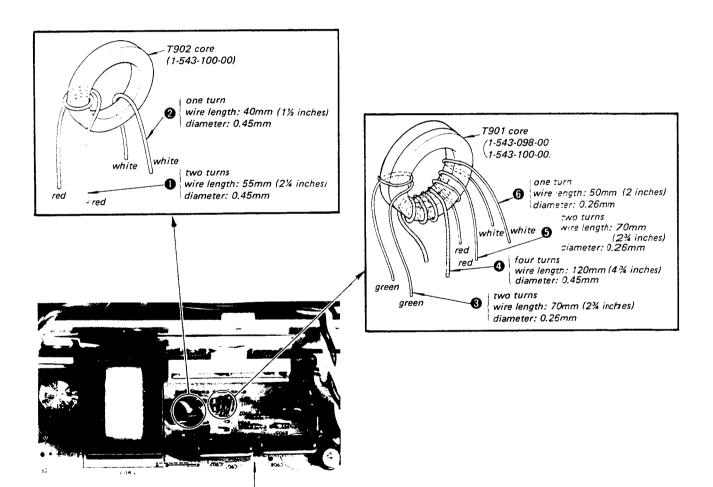
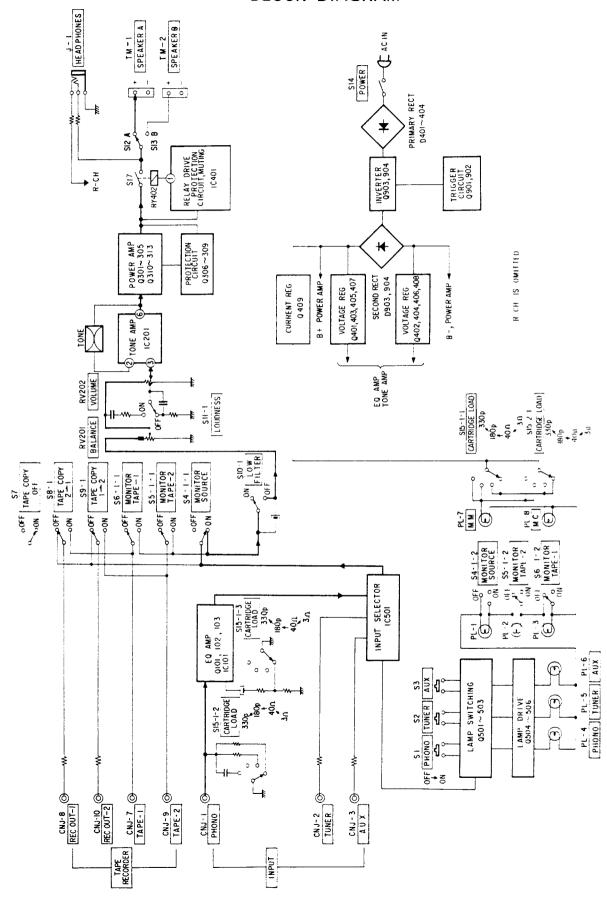


Fig. 1

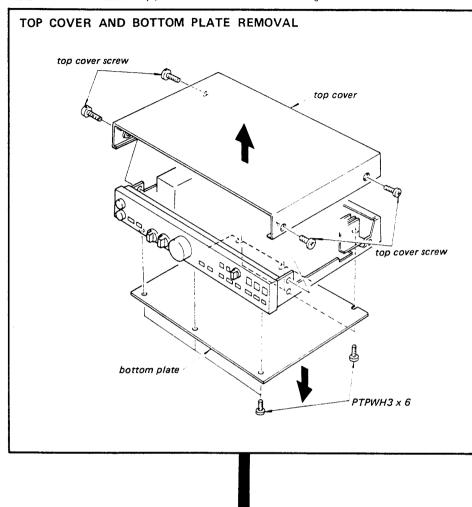
pulse power supply board

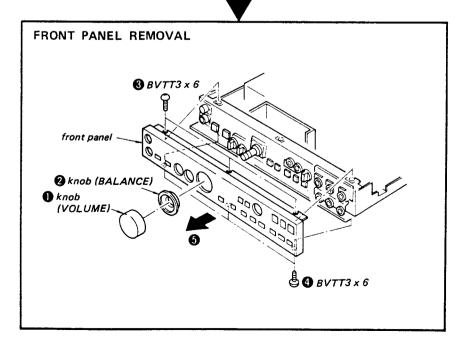
SECTION 1 BLOCK DIAGRAM

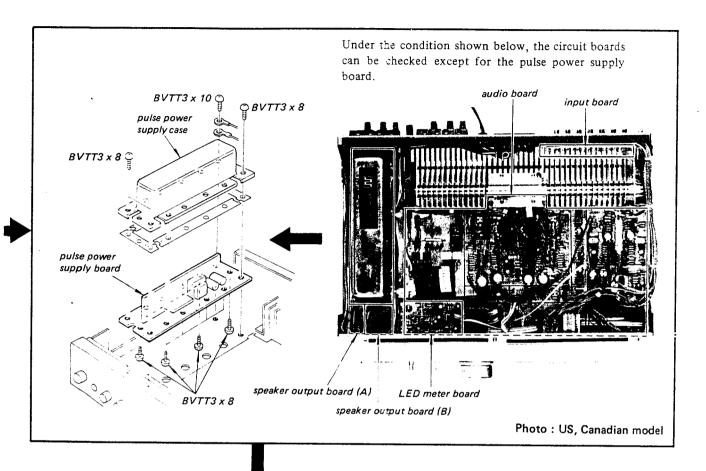


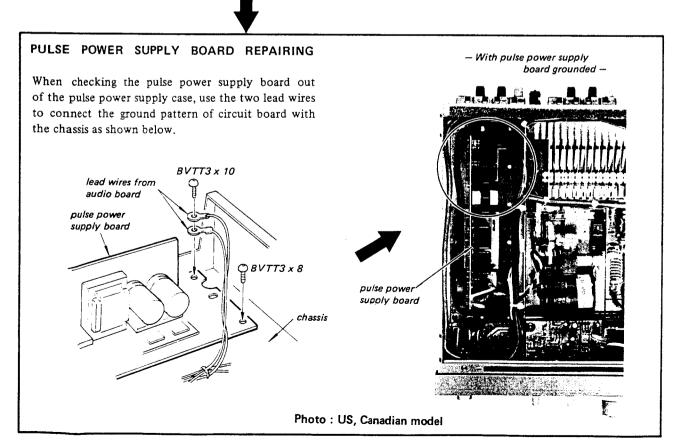
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.









SECTION 3 ADJUSTMENTS

Note:

- DC bias and DC balance adjustments should be made serveral minutes later after the POWER switch is turned on (POWER ON.).
- 2. Make DC bias adjustment first.
- Repeat DC bias and DC balance adjustments two or three times.
- 4. After replacing the power transistors, DC bias and DC balance adjustments should be made.

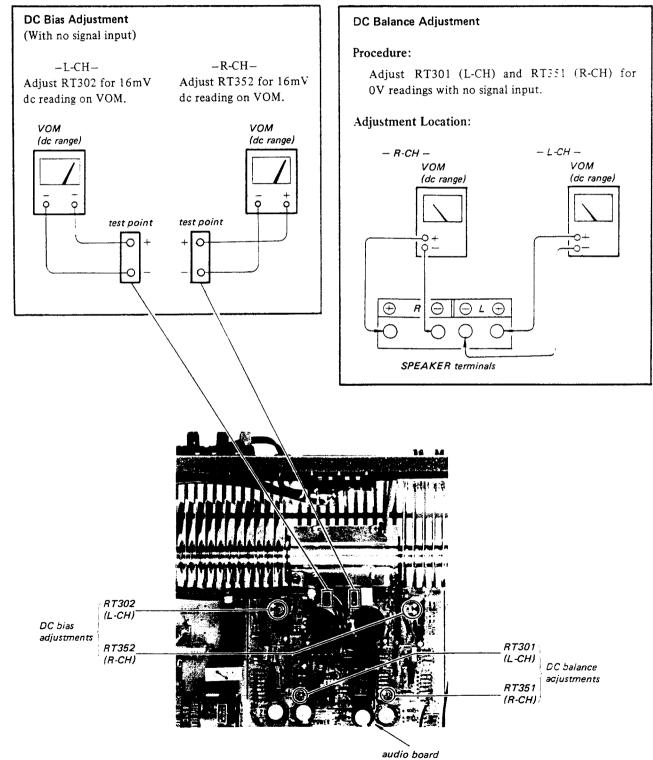
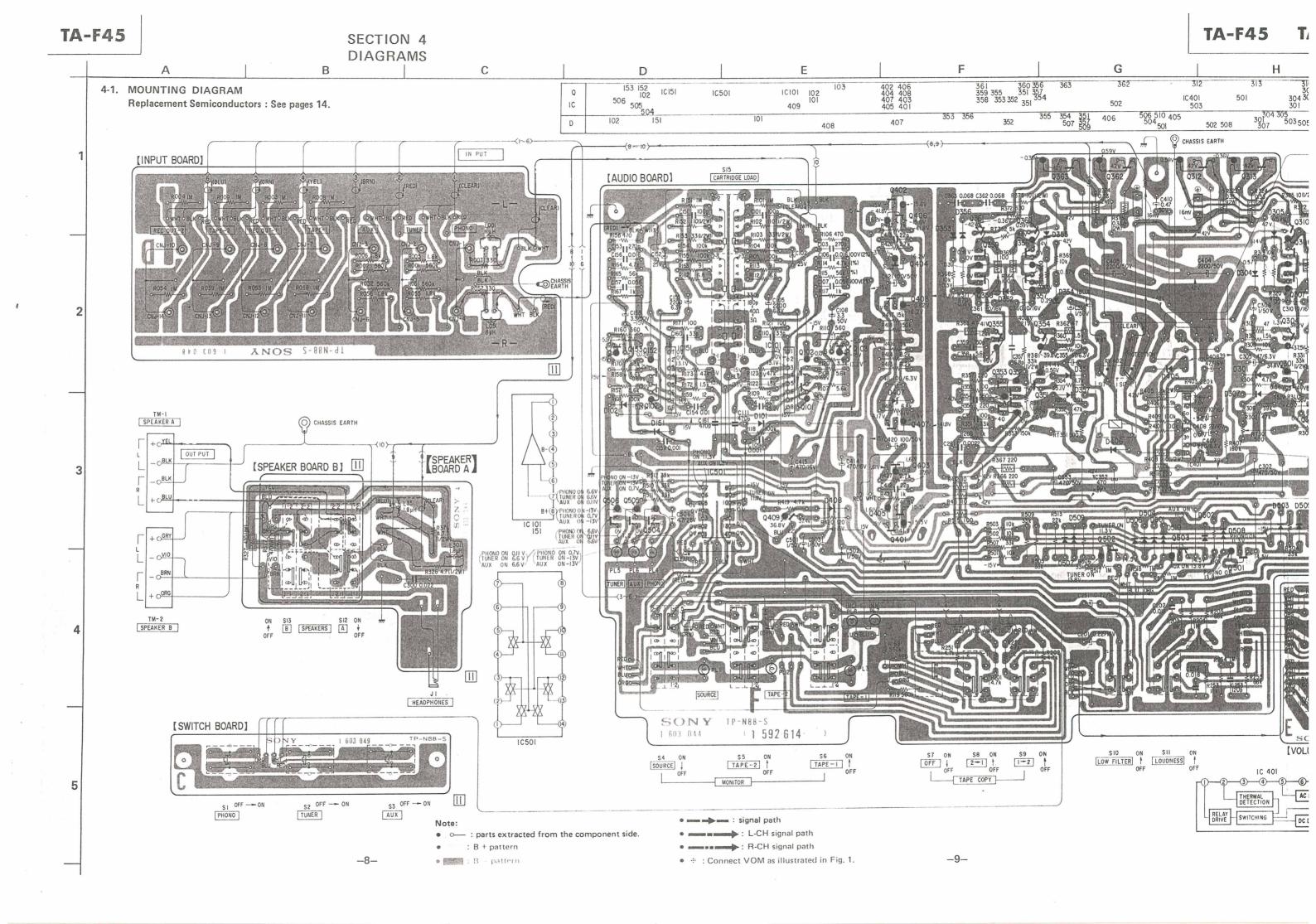
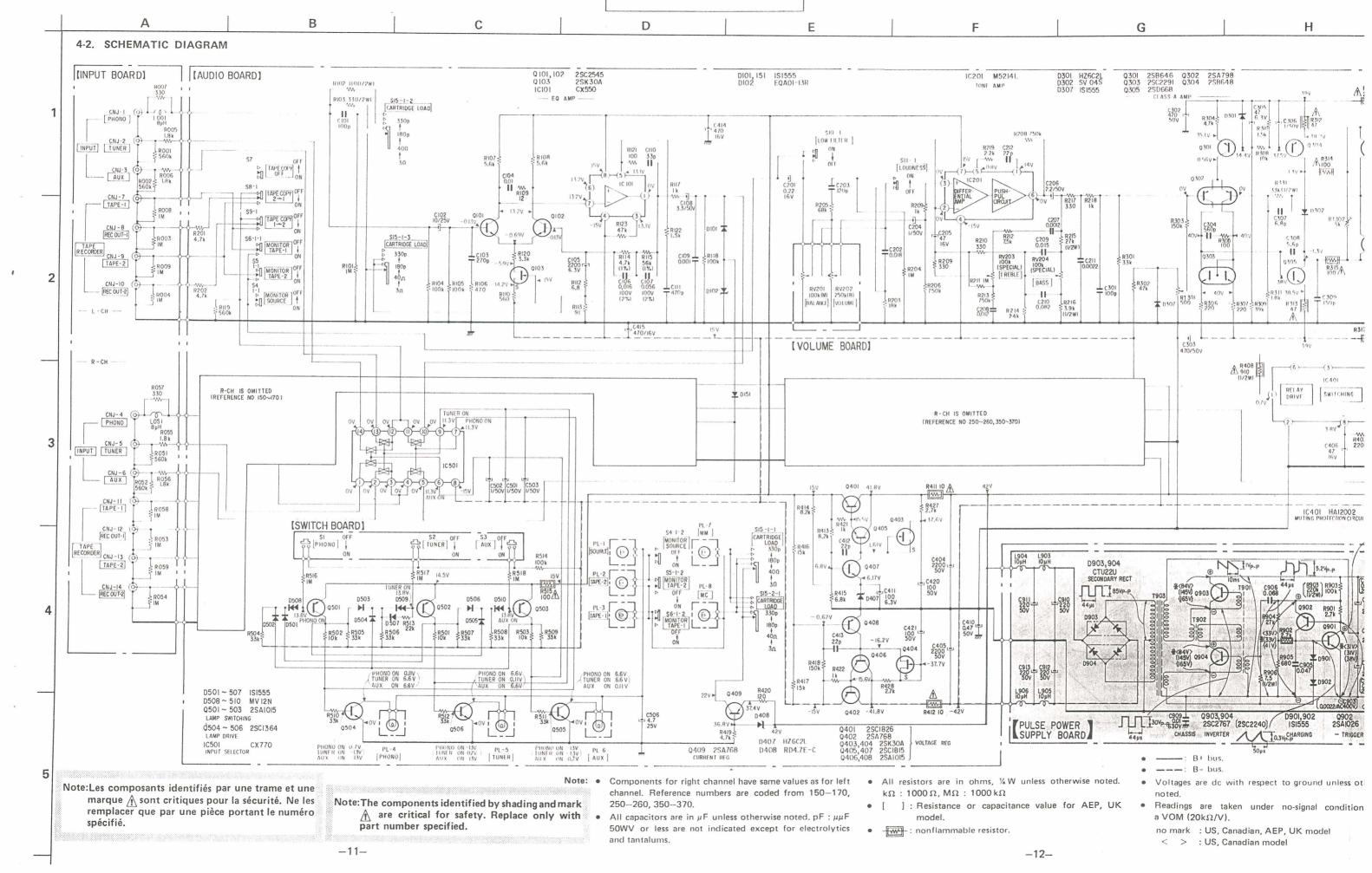
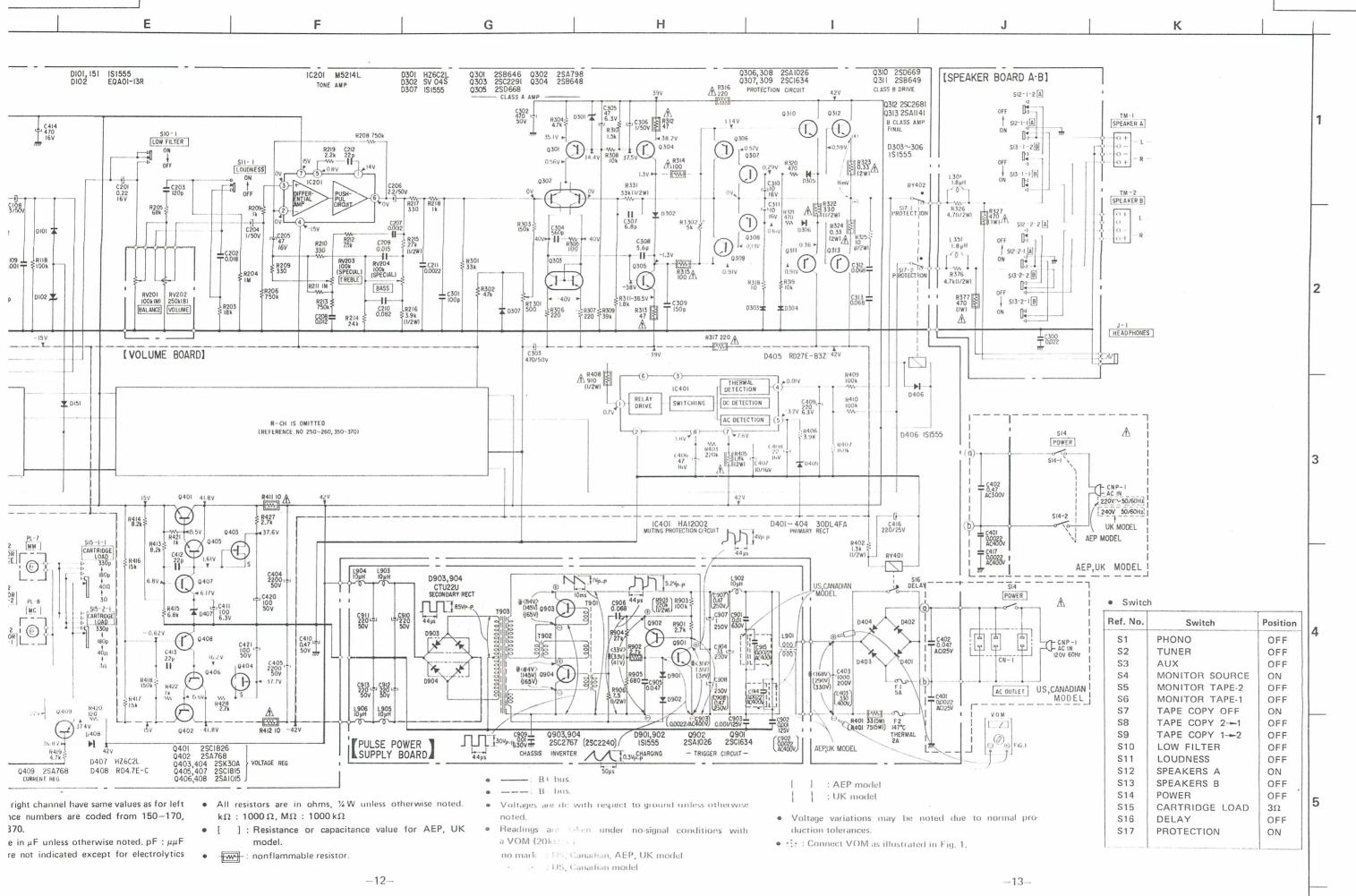
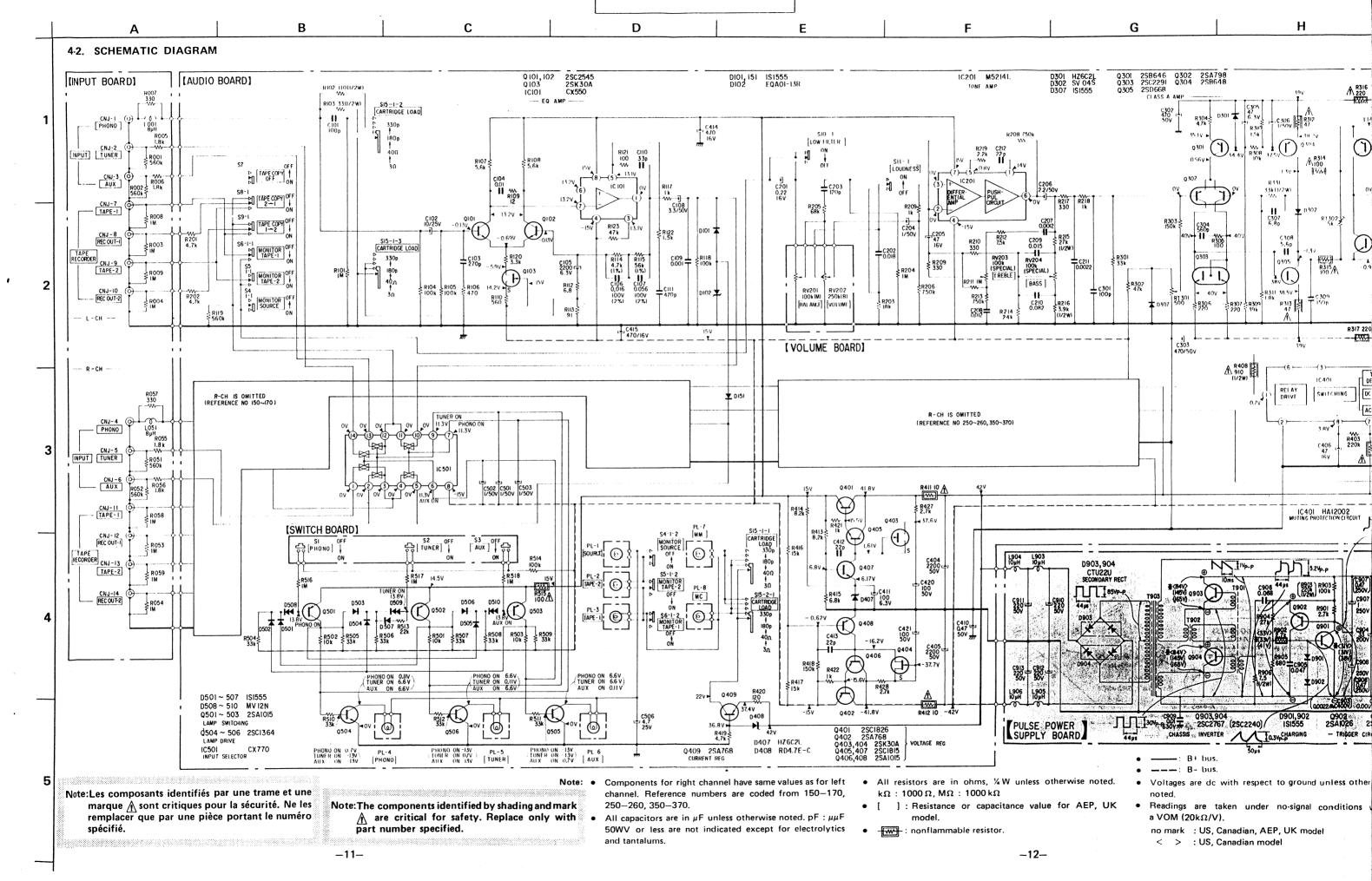


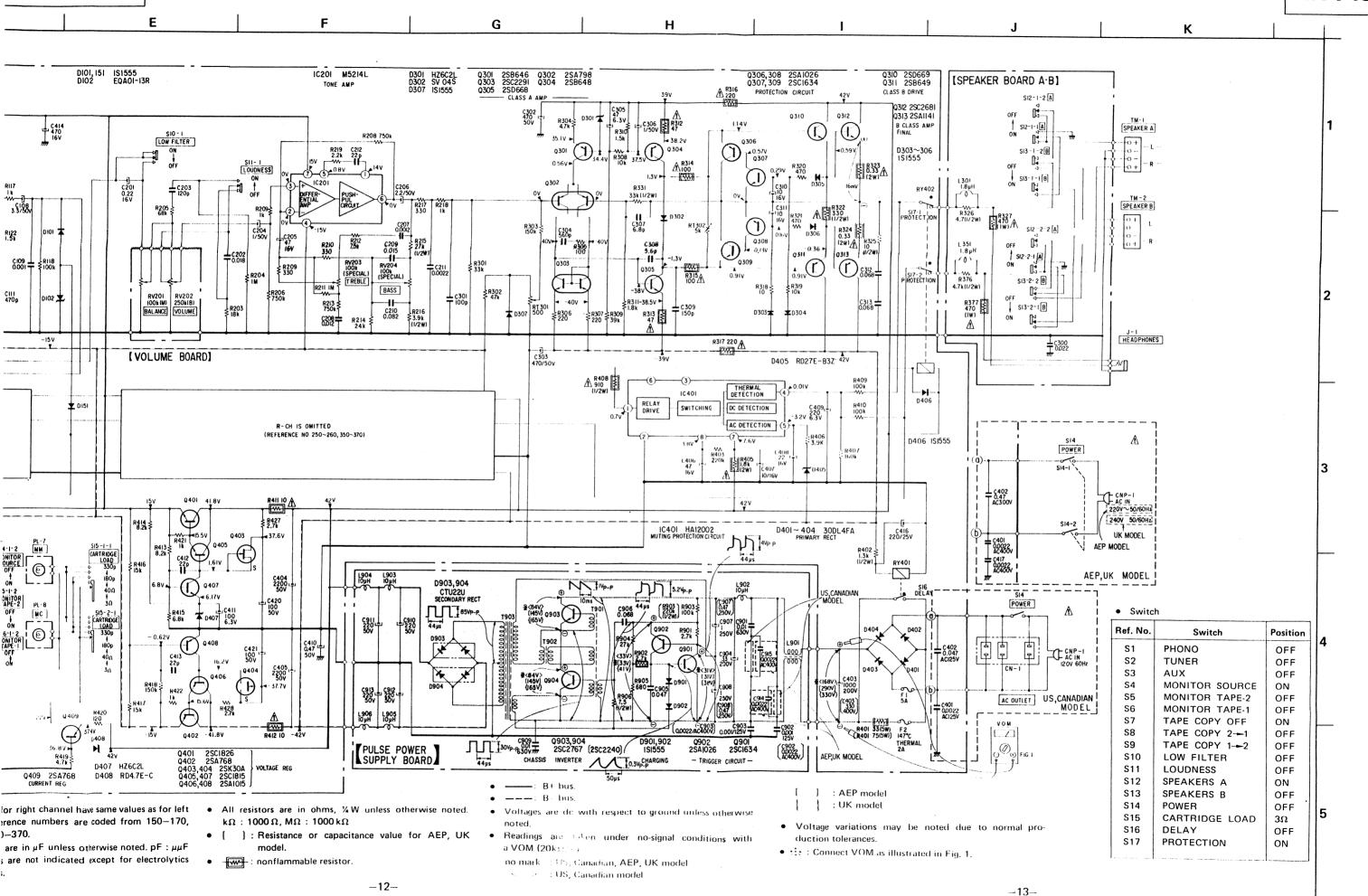
Photo: US, Canadian model







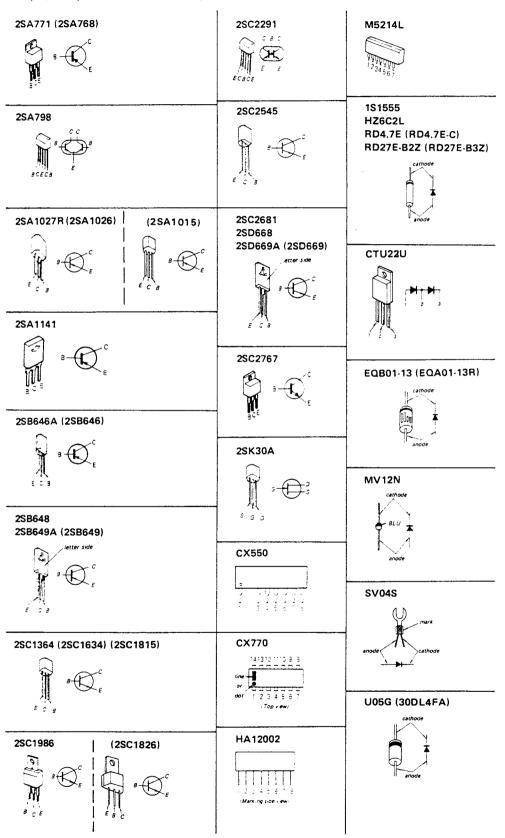




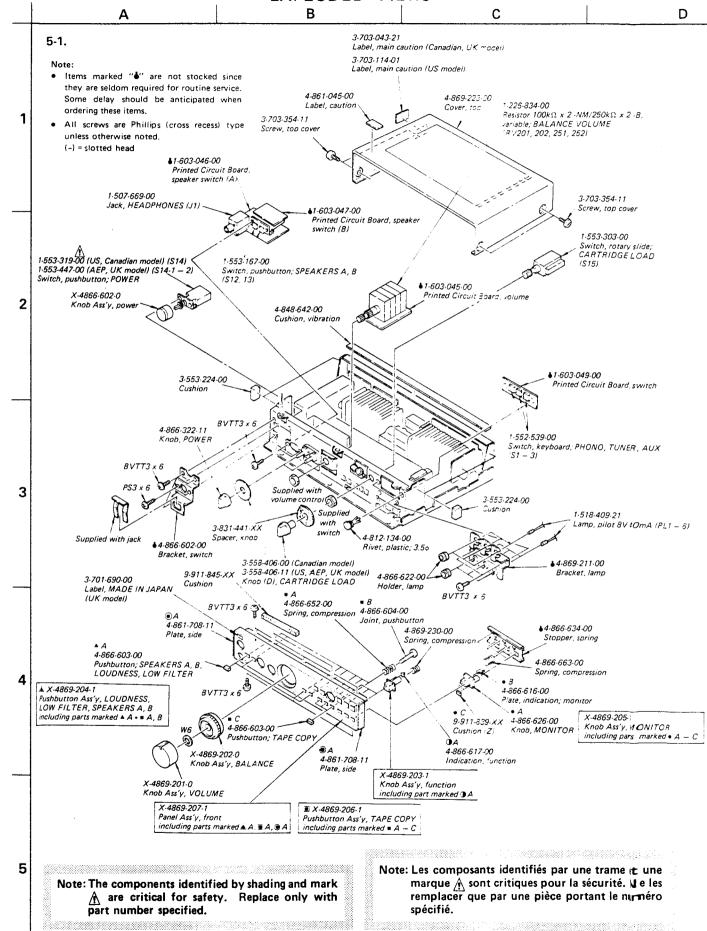
TA-F45

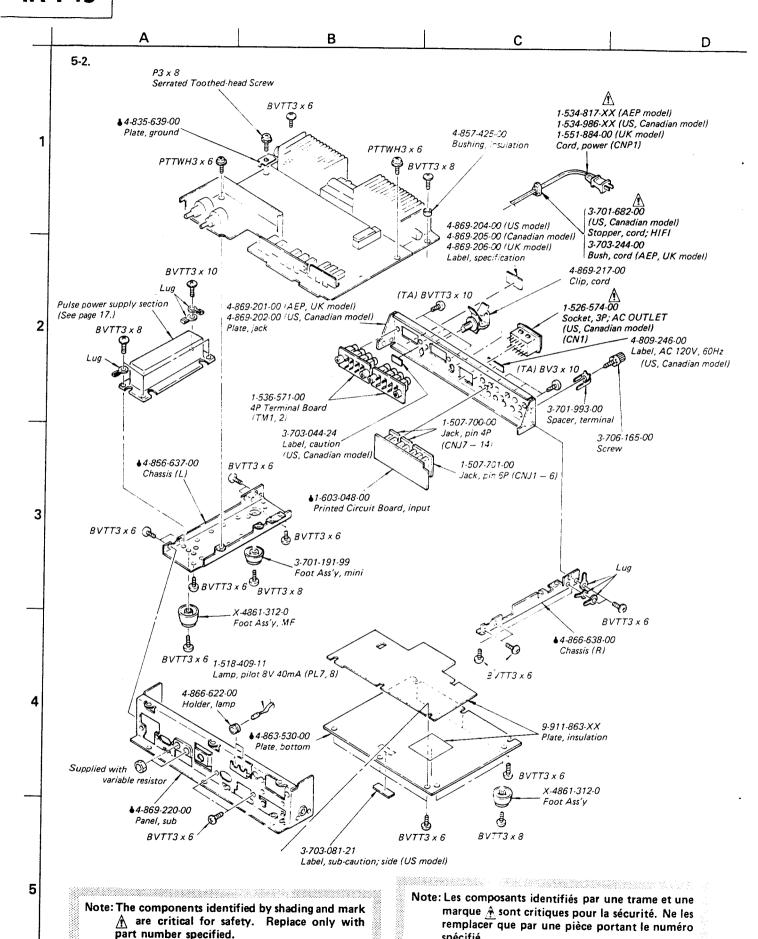
Replacement Semiconductors

For replacement, use semiconductors except in ().

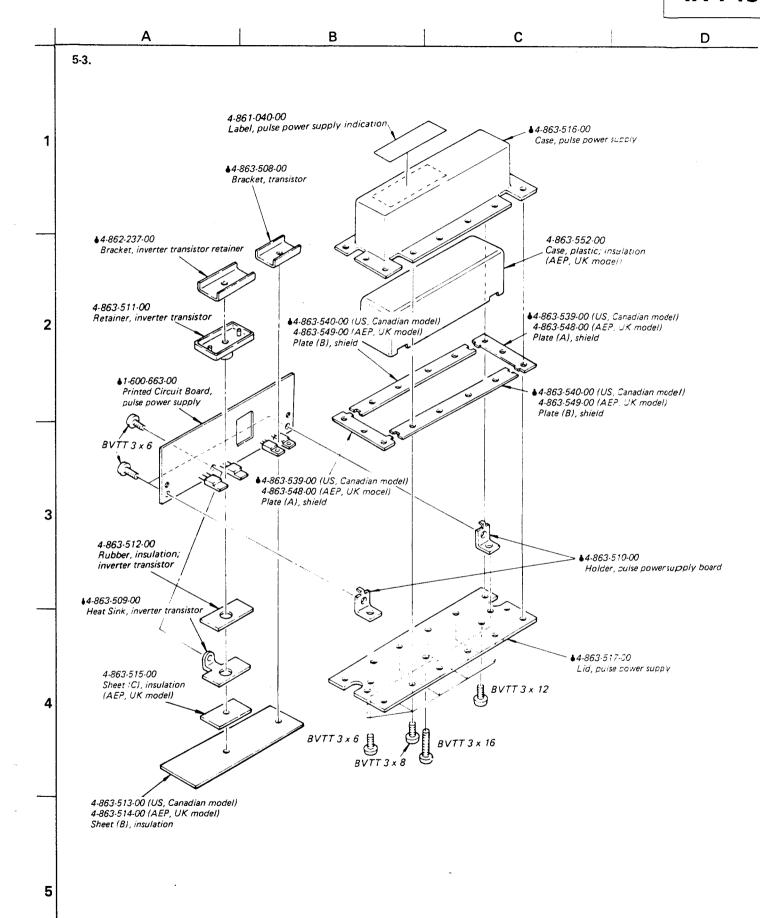


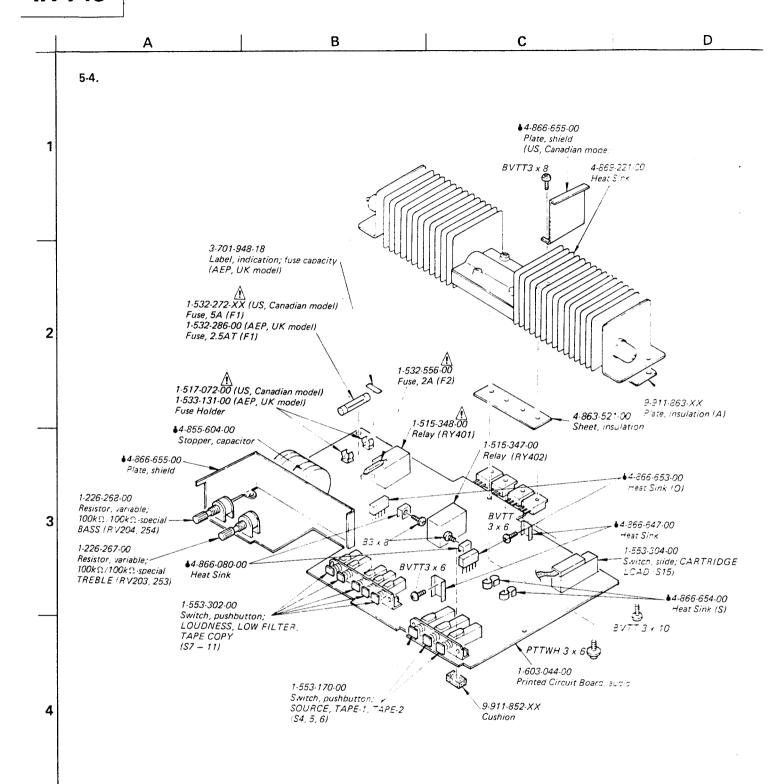
SECTION 5 EXPLODED VIEWS





spécifié.





Note: Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 6 **ELECTRICAL PARTS LIST**

Ref. No.	Part No.	Description
	SEMICO	NDUCTORS
	Tra	nsistors
0101 161		
Q101, 151 Q102, 152)	8-729-354-52	2SC2545
Q102, 132 Q103, 153	8-729-203-04	2SK30A
	8-729-304-62	
	8-729-679-82	
(00-,00-	4 . 23 4 . 3 3	
Q303, 353	8-729-629-12	2SC2291
	8-729-364-81	2SB648
	8-729-366-81	2SD668
Q306, 356	8-729-612-77	2SA1027R
Q307, 357	8-729-663-47	2SC1364
Q308, 358		2SA1027R
Q309, 359		2SC1364
Q310, 360		2SD669A
Q311, 361		2SB649A
Q312, 362	8-729-168-11	2SC2681
Q313, 363	8-729-114-11	2SA1141
Q401	8-729-308-62	2SC1986
Q402	8-729-377-12	2SA771
Q403, 404	8-729-203-04	2SK30A
Q405	8-729-663-47	2SC1364
0.406	0.500.610.55	25.1027
Q406 Q407	8-729-612-77 8-729-663-47	
Q407 Q408	8-729-612-77	
Q409	8-729-377-12	
-	8-729-612-77	
Q001 000	0.23 012	
Q504506	8-729-663-47	2SC1364
Q901 /	8-729-663-47	2SC1364
Q902	8-729-612-77	2SA1027R
Q903, 904 /	^ X-4863-506-1	Transistor Ass'y, service
		2SC2767 x 2
		ICs .
10101 151	9 750 205 52	CVEEO
IC101, 151 IC201, 251	8-759-305-50	CX550 M5214L
IC201, 251 IC401	8-759-652-14 8-759-320-02	M5214L HA12002
IC401 IC501	8-759-700-00	CX770
10001	3-737-700-00	CALLO

Items marked "#" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
	D	iodes
D101, 151	8-719-815-55	1S1555
D102, 152	8-719-931-13	EQB01-13
D301, 351	8-719-910-68	HZ6C2L
D302, 352	8-719-300-11	SV04S
D303, 353	l	
} }	8-719-815-55	1S1555
D307, 357.		
D401-404/	<u>1</u> 8-719-911-55	U05G
D405	8-719-127-25	RD27E-B2Z
D406	8-719-815-55	1S1555
D407	8-719-910-68	HZ6C2L
D408	8-719-147-77	RD4.7E
D501-507	8-719-815-55	1S1555
D508-510	8-719-912-00	MV12N
	<u>1</u> 8-719-815-55	
D903, 904 /	<u>1</u> 8-719-300-22	CTU22U
	CAPA	ACITORS

All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics and tantalums. pF: $\mu\mu$ F

C401	1-130-197-00	0.0022	125V	cerarnic
0.01	777 200 251 00		adian mod	
C401 417	1 -161-734-00	0.0022	400V	cerarmic
C401, 417	/ <u>//</u> 1-101-754-00	(AEP, UK		CHAIRIE
C402	↑ 1-130-234-00	0.047	125V	film
C402	/ <u>N</u> 1-130-234-00	•••		
		(US, Can	adian mod	(el)
C402	1-130-342-00 1-130-342-00	0.47	300V	film
		(AEP, UK	(model)	
C403	↑ 1-125-222-00	330	400V	electrolytic
		(AEP, UK	(model)	
C403	<u>↑</u> 1-125-223-00	1000	200V	eectrolytic
		(US, Can	adian mod	el]
	•			
	<u></u> 1-130-141-00	0.01	630V	fim
C902, 903	∆ 1-161-516-00	0.001	125V	crarmic
		(US, Can	adian mod	el]
C902, 903	A	0.0000	40077	
C914, 915	<u>)</u> 1 -161-734-00	0.0022	400V	Crarmic
		(AEP, UK	(model)	

Note: Les composants identifiés par une tramier une marque A sont critiques pour la sécurité N e les remplacer que par une pièce portant le sur néro spécifié.

Ref. No.	Part No.	Descripi	tion		Ref. No.	Part No.	Descrip	tion	
110, 110.	1111111	20000				 -			
C904	∱ 1-123-290-00	10	400V	electrolytic	R902	<u>^</u> 1-247-141-00	2.7k	1/4W	carbon
		(AEP, UI	(model)						(nonflammable)
C904	<u></u> 1-123-565-00	33	200V	electrolytic	R903	<u>^</u> 1-244-521-15	100k	1⁄4W	carbon
		(US, Can	adian mod	iel)			(US, Can	adian mo	del)
C905	<u> </u>	0.047	50V	mylar	R903	<u>^</u> 1-244-929-00	220k	½ ₩	carbon
C907, 908	3 <u>∱</u> 1-130-356-00	0.47	250V	film			(AEP, U	K model)	
		(AEP, UI	(model)		R904	<u>1-246-507-15</u>	27k	¼W	carbon
C907, 908	3 <u>∱</u> 1-130-357-00	1	250V	film	R905	<u>^</u> 1-246-469-15	680	¼W	carbon
			adian mod						
C910913	3 1-123-361-00	220	50V	electrolytic	R906	<u>^1-244-821-00</u>	6.8	⅓W	carbon
						A		adian mo	
	RES	ISTORS			R906	<u>^</u> 1-244-822-00	7.5	⅓W	carbon
All resistors	s are in ohms. Com	ımon ¼W c	arbon resi	stors are	. ^		(AEP, U	K model)	
omitted. R	efer to the list on t	he last pag	e for their	part numbers.	DT201 26	1 1 226 222 00	500 B a	dingsahlan	da haramaa
kΩ:1000Ω	Ω, MΩ: 1000kΩ					1 1-226-232-00 2 1-226-235-00		justable; d	de barance
D212 261) .				K1302,33	1-220-233-00	JK-D, auj	ustable, c	10 0123
R312, 302	² 3) <u>/</u> 1-247-099-00	47	¼W	carbon	RV201,25	1			
				(nonflammable)	RV202.25	51 52) 1-226-834-00			x2-B. variable;
R314, 364	\$ 5) <u>∱</u> 1-247-107-00	100	1⁄4W	carbon				CE, VOL	
R315, 365	3/22-0			(nonflammable)		53 1-226-267-00			l. variable; TREBLE
R316, 366	5. A. a. a. a. a.				RV204, 2	54 1-226-268-00	100k/10	Ok-special	l. variable; BASS
R317, 36	5 7 <u>/</u> 1-247-115-00	220	¼W	carbon	1	****			
D222 22	2 <u> </u>	330	⅓W	(nonflammable)		MISCEL	LANEOU	>	
K322, 37.	2 <u>/1\</u> 1-24 /-288-00	330	72 W	carbon (nonflammable)	CN1	<u></u> 1-526-574-00	A.C.outle	+ 3D/IIS	, Canadian model)
				(HOHITAITIHIADIC)	CNJ1-6	1-507-701-00		6P INPU	
R323 37	3 .				CNJ7-14				E RECORDER
R324, 374	³) ∕∆ 1-217-152-11	0.33	2W	wirewound	CNP1	∕\1-534-817-XX		wer (AEF	
	7 <u>∱</u> 1-213-139-00	470	1W	metal oxide	CNP1	1-534-986-XX			Canadian model)
			SE	(nonflammable)	CNP1	<u>∱</u> 1-551-884-00	_	wer (UK	
R401	⚠ 1-205-598-00	33	5W	wirewound					
		(US, Can	adian mod	iel)	F1	<u></u> 1-532-272-XX	Fuse, 5A	(US, Car	nadian model)
R401	1 -205-599-00	75	5W	wirewound	F1	<u></u> 1-532-286-00	Fuse, 2.5	AT (AEF	, UK model)
		(AEP, U	K model)		F2	<u>^</u> 1-532-556-00	Fuse, 14	7°C 2A	
			***		J1	1-507-669-00	Jack, HE	ADPHON	NES
R405	1-206-670-00	1.8k	2W	metal oxide	L001, 051	1-407-519-00	Microind	luctor, 8 μ	Н
				(nonflammable)					
R408	<u>_</u>1-247-239- 00	910	1/2W	carbon	♣ L301, 351			core 1.8µ	
				(nonflammable)	L901	<u>^</u> 1-421-328-11		ke (Line	
R411, 41	2 1-247-083-00	10	¼₩	carbon		Δ		adian mo	
D. 6.4.6	A. 045 405 55		1/112	(nonflammable)	L901	<u>^</u> 1-421-340-00		ke (Line	,
R515	⚠ 1-247-107-00	100	₩	carbon	1000 00	C A 1 421 222 22	(AEP, U	-	
D001	A1 246 402 15	3 71-	1/31/	(nonflammable)	1	6 1-421-329-00	•	ke 10µH	\ \
R901	1-246-483-15	2.7k	¼W	carbon	PL1-6	1-518-409-21	Lamp, pi	ilot 8V 40	JM.A

Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

PL7, 8 1-518-409-11 Lamp, pilot 8V 40mA RY401	Ref. No.	Part No.	Description
RY401 ▲1-515-348-00 Relay RY402 1-515-347-00 Relay S1-3 1-552-539-00 Switch. keyboard; PHONO, TUNER, AUX S4-6 1-553-170-00 Switch. pushbutton; SOURCE, TAPE-2, TAPE-1 S7-11 1-553-302-00 Switch, pushbutton; LOUDNESS, LOW FILTER. TAPE COPY S12, 13 1-553-167-00 Switch, pushbutton; SPEAKERS A, B S14 ▲1-553-319-00 Switch, pushbutton; POWER (US, Canadian model) S14-1-2 ▲1-553-447-00 Switch, pushbutton; POWER (AEP, UK model) S15 1-553-303-00 Switch, rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch. slide; CARTRIDGE LOAD T901 ▲1-543-098-00 Core T901, 902 ▲1-543-100-00 Core T903 ▲1-446-363-00 Transformer, converter (US, Canadian model) T7903 ▲1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B ♣1-508-803-13 U Type Base Post	PL7.8	1-518-409-11	Lamp, pilot 8V 40mA
RY402 1-515-347-00 Relay S1-3 1-552-539-00 Switch. keyboard; PHONO, TUNER,	•		
AUX S4-6 1-553-170-00 Switch. pushbutton; SOURCE, TAPE-2, TAPE-1 S7-11 1-553-302-00 Switch, pushbutton; LOUDNESS, LOW FILTER. TAPE COPY S12, 13 1-553-167-00 Switch. pushbutton; SPEAKERS A, B S14 ▲1-553-319-00 Switch, pushbutton; POWER (US, Canadian model) S14-1-2 ▲1-553-447-00 Switch, pushbutton; POWER (AEP, UK model) S15 1-553-303-00 Switch. rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch. slide; CARTRIDGE LOAD T901 ▲1-543-098-00 Core T901, 902 ▲1-543-100-00 Core T903 ▲1-446-363-00 Transformer, converter (US, Canadian model) T903 ▲1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B		4	Relav
AUX S4-6 1-553-170-00 Switch. pushbutton; SOURCE, TAPE-2, TAPE-1 S7-11 1-553-302-00 Switch, pushbutton; LOUDNESS, LOW FILTER. TAPE COPY S12, 13 1-553-167-00 Switch. pushbutton; SPEAKERS A, B S14 ▲1-553-319-00 Switch, pushbutton; POWER (US, Canadian model) S14-1-2 ▲1-553-447-00 Switch, pushbutton; POWER (AEP, UK model) S15 1-553-303-00 Switch. rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch. slide; CARTRIDGE LOAD T901 ▲1-543-098-00 Core T901, 902 ▲1-543-100-00 Core T903 ▲1-446-363-00 Transformer, converter (US, Canadian model) T903 ▲1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B			
TAPE-1 S7-11 1-553-302-00 Switch, pushbutton; LOUDNESS, LOW FILTER. TAPE COPY S12, 13 1-553-167-00 Switch, pushbutton; SPEAKERS A, B S14 1-553-319-00 Switch, pushbutton; POWER (US, Canadian model) S14-1-2 1-553-447-00 Switch, pushbutton; POWER (AEP, UK model) S15 1-553-303-00 Switch, rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch, slide; CARTRIDGE LOAD T901 1-543-098-00 Core T901, 902 1-543-100-00 Core T903 1-446-363-00 Transformer, converter (US, Canadian model) T903 1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B			
S7-11 1-553-302-00 Switch, pushbutton; LOUDNESS, LOW FILTER. TAPE COPY	S46	1-553-170-00	Switch, pushbutton; SOURCE, TAPE-2,
FILTER. TAPE COPY \$12, 13			TAPE-1
S12, 13 1-553-167-00 Switch, pushbutton; SPEAKERS A, B S14 ▲1-553-319-00 Switch, pushbutton; POWER (US, Canadian model) S14-1-2 ▲1-553-447-00 Switch, pushbutton; POWER (AEP, UK model) S15 1-553-303-00 Switch, rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch, slide; CARTRIDGE LOAD T901 ▲1-543-098-00 Core T901, 902 ▲1-543-100-00 Core T903 ▲1-446-363-00 Transformer, converter (US, Canadian model) T903 ▲1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B ▲1-508-803-13 U Type Base Post	S7-11	1-553-302-00	Switch, pushbutton; LOUDNESS, LOW
S14 ▲1-553-319-00 Switch, pushbutton; POWER (US, Canadian model) S14-1-2 ▲1-553-447-00 Switch, pushbutton; POWER (AEP, UK model) S15 1-553-303-00 Switch, rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch, slide; CARTRIDGE LOAD T901 ▲1-543-098-00 Core T901, 902 ▲1-543-100-00 Core T903 ▲1-446-363-00 Transformer, converter (US, Canadian model) T903 ▲1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B ▲1-508-803-13 U Type Base Post			FILTER, TAPE COPY
(US, Canadian model) S14-1-2	S12, 13	1-553-167-00	Switch, pushbutton; SPEAKERS A, B
S14-1-2	S14	1-553-319-0 0 1	Switch, pushbutton; POWER
(AEP, UK model) S15 1-553-303-00 Switch, rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch, slide; CARTRIDGE LOAD T901 1-543-098-00 Core T901, 902 1-543-100-00 Core T903 1-446-363-00 Transformer, converter (US, Canadian model) T903 1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B			(US, Canadian model)
S15 1-553-303-00 Switch, rotary slide; CARTRIDGE LOAD S15 1-553-304-00 Switch, slide; CARTRIDGE LOAD T901	S14-1-2	<u>1-553-447-00</u>	Switch, pushbutton; POWER
LOAD S15 1-553-304-00 Switch. slide; CARTRIDGE LOAD T901 ↑1-543-098-00 Core T901, 902 ↑1-543-100-00 Core T903 ↑1-446-363-00 Transformer, converter (US, Canadian model) T903 ↑1-446-364-00 Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B ↑1-508-803-13 ↓1-517-072-00 Fuse Holder (US, Canadian model)			(AEP, UK model)
Sis 1-553-304-00 Switch. slide; CARTRIDGE LOAD T901	S15	1-553-303-00	Switch, rotary slide; CARTRIDGE
T901			LOAD
T901, 902	S15	1-553-304-00	Switch. slide; CARTRIDGE LOAD
T901, 902	T901	↑ 1-543-098-00	Core
T903			Core
(US, Canadian model) Transformer, converter (AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B 1-508-803-13 U Type Base Post 1-517-072-00 Fuse Holder (US, Canadian model)			
T903		2.1	-
(AEP, UK model) TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B \$\blace\$1-508-803-13 U Type Base Post Fuse Holder (US, Canadian model)	T903	1-446-364-00	
TM1, 2 1-536-571-00 4P Terminal Board, SPEAKER A, B			
⚠1-517-072-00 Fuse Holder (US, Canadian model)	TM1, 2	1-536-571-00	
⚠1-517-072-00 Fuse Holder (US, Canadian model)			
/\lambda1-533-131-00 Fuse Holder (AEP, UK model)			
100		<u>^1</u> -533-131-00	Fuse Holder (AEP, UK model)
PRINTED CIRCUIT BOARDS		PRINTED CI	RCUIT BOARDS
♦ 1-600-663-00 Pulse Power Supply		▲ 1-600-663-00	Pulse Power Sunnly
1 -603-044-00 Audio		_	• •
1 -603-045-00 Volume			,
1 -603-046-00 Speaker (A)			
♦ 1-603-047-00 Speaker (B)			•
T 000 017 00 Broaker D		¥1003017-00	Spounds . D.
♦ 1-603-048-00 Input		♦ 1-603-048-00	Input
1 -603-049-00 Switch		1 -603-049-00	Switch

Ref. No.	Part No.	<u>Description</u>
ACC	ESSORIES AND	PACKING MATERIALS
	Part No.	Description
	3-701-630-00	Bag, plastic (for instruction manual)
	3-783-202-11	Manual, instruction
		(AEP, UK model)
	3-783-202-21	Manual, instruction
		(US, Canadian model)
	3-794-479-31	Leaflet in French (Canadian model)
	4-863-543-00	Cushion
	4-866-723-00	Bag, plastic (for amplifier)
	4-869-227-00	Carton

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified. _

Note: Les composants identifiés par une trame et une marque <u>r</u> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant lenu méro spécifié.

ELECTROLYTIC CAPACITORS

			RATING		→ : Use their ghivo:	age rated one.
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
CAP. (µF)	PART No.	PART No.				
0.47					-	1-121-726-00
1.0	1					1-121-391-00
2.2						1-121-450-00
3.3	-	-	→	1-121-392-00		1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→		1-121-651-00	1-121-398-00	→	1-121-738-00
22			1-121-479-00	1-121-480-00	1-121-662-10	1-121-152-00
33	· -		1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47		1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-10	1-121-417-00
220	1-121-419-00	1-121-+20-00	1-121-421-00	1-121-422-00	1-121-261-18	1-121-423-00
330	1-121-751-00	1-121-905-00	1-121-521-00	1-121-654-00	1-121-655-10	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-510-00
1000	-	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-13	1-123-061-00
2200	1-121-658-00	1-121-554-00	1-121-660-00	1-123-067-00	1-121-984-13	-
3300	1-121-661-00	1-123-075-00	1-123-071-00	-	-	

	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.	PART No.
0.47		_	-	-
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	-	1-123-028-00
3.3	1-121-995-00	-	1-123-004-00	1-123-006-00
4,7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-299-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00		-
47	1-123-251-00	1-121-414-00	-	-
100	1-123-084-00	. e	-	_

CERAMIC CAPACITORS

			RAT	TING			
	50 VOLT.		50 VOLT.		50 VOLT.	CAP. "F	50 VOLT.
CAP. (pF)	PART No.	CAP, (pF)	PART No.	CAP. (pF)	PART No.	CAP. IF	PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	1.41	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	9.1012	1-102-118-00
1.0	1-102-934-00	<u>:-</u>	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-0
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	3 351s	1-102-120-00
2.0	1-102-935-00	3.3	1-102-963-00	220	1-102-978-00	0.0002	1-102-121-0
3	1-102-936-00	36	1-102-964-00	240	1-102-919-00	0.0027	1-102-122-0
4	1-102-937-00	3.4	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-0
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0634	1-102-124-0
6	1-102-943-00	47	1-101-580-00	330	1-102-820-00	0.7647	1-102-125-0
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	3.1056	1-102-126-0
8	1-102-945-00	ío.	1-101-884-00	390	1-102-822-00	3.2%	1-102-127-0
9	1-102-946-00	52	1-101-886-00	430	1-102-823-60	. 11*1	1-102-128-0
10	1-102-947-00	5.6	1-101-888-00	470	1-102-824-00	5.11	1-102-129-0
11	1-102-948-00	7.5	1-101-890-00	510	1-101-059-00	.11	1-101-005-0
12	1-102-949-00	52	1-102-971-00	560	1-102-115-00	3:47	1-101-005-0
13	1-102-950-00	+1	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00	1			
20	1-102-958-00	139	1-101-081-00	!			

0.001#F = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

		R	ATING	• : Use the high vo	itage rated one.		
	25 VOLT.	50 VOLT.		25 VOLT.	50 VOLT.		
CAP. (µF)	PART No.	PART No.	- CAP. (μF)	PART No.	PART No.		
0.001		1-161-039-00	0.018	1-161-016-00	1-161-054-00		
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00		
0.0015	1	1-161-041-00	0.027	1-161-018-00	1-161-056-00		
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00		
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00		
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00		
0.0033	-	1-161-045-00	0.056	→	1-161-060-00		
0.0039	→	1-161-046-00	0.068		1-161-061-00		
0.0047		1-161-047-00	0.082	1-161-024-00	1-161-062-00		
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00		
0.0068		1-161-049-00					
0.0082	1-161-012-00	1-161-050-00					
0.01	1-161-013-00	1-161-051-00					
0.012	→	1-161-052-00	1				
0.015	1-161-015-00	1-161-053-00					

MYLAR CAPACITORS

						RATING					
/	50 VOLT.	100 VOLT.	200 VOLT.	0.0 (5)	50 VOLT.	100 VOLT.	200 VOLT.	040 (50 VOLT.	100 VOLT.	200 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	I-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-105-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-104-35-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-350-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-105-436-90
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-352-00	1-108-126-00	0.27	1-108-854-00	_	
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	-	-
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		-
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00	:		•	
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-105-388-00	1-108-432-00				



			•				
			RATING	→:	ge rated one.		
045 (5)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
CAP. (#F)	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01		:					1-131-396-00
0.015						·	1-131-397-00
0.022						-	1-131-398-00
0.033						-	1-131-399-00
0.04							1-131-400-00
0.065		*			-	-	1-131-401-00
0.1					→	→	1-131-402-00
0.15					-	→	1-131-403-00
0.22							1-131-404-00
0.33						1-131-409-00	1-131-405-00
0.47			-		1-131-412-00		1-131-406-00
0.65	-			1-131-415-00		1-131-410-00	1-131-407-00
1.0			1-131-418-00		1-131-413-00		1-131-408-00
1.5		1-131-421-00	**	1-131-416-50		1-131-411-00	1-131-348-00
2.2	1-131-424-00	**	1-131-414-00	-	1-131-414-00	1-131-355-00	1-131-349-00
3.3	-	1-131-422-00	_	1-131-417-50	1-131-362-00	1-131-356-00	1-131-350-00
4.	1-131-425-00		1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	-	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	- 1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	-
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			1
47	1-131-393-00	1-131-387-00	1-131-381-00				
68	1-131-394-00	1-131-388-00		was.			
100	1-131-395-00	_	-				

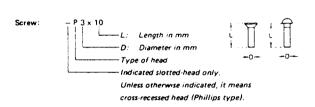
TANTALUM CAPACITORS

RATING							
CAP. (عند)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT	
CAP. (IF)	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	
0.033						1-131-273-00	
0.04						1-131-274-00	
0.065						1-131-275-00	
0.1					1	1-131-276-00	
0.15						1-131-277-00	
0.22		:	-		1-131-262-00	1-131-278-00	
0.33			***	-	1-131-263-00	1-131-279-00	
0.47			1-131-169-00		1-131-264-00	1-131-280-00	
0.68			-	1-131-258-00	1-131-265-00	1-131-281-00	
1.0			1-131-254-00	-	1-131-266-00	1-131-282-00	
1.5		, 1-131-250-00		-	1-131-267-00	1-131-283-00	
2.2		-	-	1-131-259-00	1-131-268-00	1-131-284-00	
3.3		, -	1-131-255-00		1-131-269-00	-	
4.7		1-131-251-00	1-131-171-00	_	1-131-270-00	-	
6.3		·	-	1-131-260-00	1-131-271-00	-	
10	-	-	1-131-256-00	-	1-131-272-00	-	
15	~	1-131-252-00	-	1-131-261-00			
22	-	-	1-131-257-00	and the same of th	1		
33	1-131-176-00	1-131-253-00	1-131-173-00	nda .	!	1	
47	1-131-288-00	1-131-174-00	_	-		•	
100	1-131-177-00						

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ö	Part No	Ō	Part No.
1.0	1-246-401-00	10	1-246-425-90	100	1 -246 -449 -00	1.0k	1-246-473-00	10k	1 -245 -497 -00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	I -246 -426 -00		1-246-450-00				1-246-498-00		1-246-522-00		
1.2	1-246-403-00	12	1 -246 -427 -00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1 -246 -523 -00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1 -246 -500 -00	130k	1 - 246 - 524 - 00	1.3M	1-210-816-00
1.5	1 -246 -405 -00	15	1-246-429-00	150	1 -246 -453 -00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1 - 246 - 502 - 00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1 -246 -431 -00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1 -246 -580 -00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1 -246 -529 -00	2.2M	1-210-821-00
	1-246-410-00	24	1-246-434-00	240	1 -246 -458 -00	2.4k	1-246-582-00	24k	1 - 245 - 506 - 00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-245-507-00	270k	1 -246 -531 -00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	. 3.0k	1 -246 -584 -00	30k	1-246-508-00	300k	1-246-532-00	. 3.0M	1-244-756-00
	1-246-413-00		1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1 - 246 - 533 - 00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-90	390	1-246-463-00	3.9k	1 -246 -587 -00	39k	1-245-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-245-512-00	430k	1-246-536-00	4.3M	1-244-760-00
i	1-246-417-00		1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1 -246 -537 -00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1 -246 -490 -00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-245-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1 -246 -541 -00		
ſ	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-90	820	1-246-471-00	8.2k	1-246-495-00	82k	1-046-519-00	820k	1 -246 -543 -00		
l	1-246-424-00		1-246-448-00	910	1 -246 -472 -00	9.1k	1-246-496-00	91k	1-146-520-00	910k	1 - 246 - 544 - 00		

HARDWARE NOMENCLATURE



Reference Shape		Description	Remarks
		SCREWS	<u> </u>
ρ	₽	pan-head screw	binding-head (B) screw for replacement
PWH	8⇒	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	85 >	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	85 ‡	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	₽	round-head screw	binding-head (B) screw for replacement
К	Þ	flat-countersunk-head screw	
RK	₽	oval-countersunk-head screw	
В	₽	binding-head screw	
Ť	Þ	truss-head screw	binding-head (B) screw for replacement
F	₽∋	flat-fillister-head screw	
RF	€∋	fillister-head screw	
BV	₽	braizer-head screw	

Nut, Washer, Retaining ring:	
N 3	
Diameter of usable screw	or shaft

Reference Shape Designation		Description	Remarks			
		SELF-TAPPING SCRE	ws			
TA	(===	self-tapping screw	ex: TA, P3 x 10			
PTP		pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement			
PTPWH	#==	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement			
PTTWH +		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement			
		SET SCREWS				
SC	-==	set screw				
SC	-9€3-	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket			
		NUT				
N	-:[nut				
		WASHERS				
w	<u></u>	flat washer				
sw	-9 }	spring washer				
LW]	internal-tooth lock washer	ex: LW3, internal			
LW	٦	external-tooth lock washer	ex: LW3, externai			
	•	RETAINING RINGS				
E	ಣ	retaining ring				
G	3	grip-type retaining ring				

Sony Corporation